

Publication of Unexamined Utility Model Application S54-56588

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Utility Model Registration Application

September 28, 1977

Honorable Commissioner of the Patent Office, Mr. Zenji KUMAGAYA

1. Title of the Utility Model

Card Support Apparatus for a Display Rack and the Like

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5. List of Appended Documents 54-56588

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[Contents of seal: Formal Examination [illegible]]

Specification Document

1. Title of the Utility Model

Card Support Apparatus for a Display Rack and the Like

2. Scope of the Utility Model Registration Claims

A card support apparatus for a display rack and the like;

wherein the card support apparatus comprises:

an attachment frame for engaged attachment of a card support frame to an upper part of a front face of a front part hanging member, shaped so as to form somewhat of a gap between a lower part of a front part hanging member and a lower part of the card support frame, laterally extending and parallelly arranged with a certain gap therebetween and having in a horizontal member an appropriate number of engagement holes, and forming a side face forming an inverted U shape; and

a rack shelf having at the front surface a lateral direction groove having a U-shaped side face capable of joining correctly with the attachment frame and provided with penetratingly arranged engagement holes corresponding to the engagement holes.

3. Detailed Description of the Invention

The present invention relates to a card support apparatus that is capable of supporting a partitioning frame of a rack plate and the like, capable of vertically supporting a card plate at the front face thereof, and the like, where the card support apparatus is also capable of detachable attachment and support of a card for display of a name, price, and the like of goods on the rack plate. The present invention will be explained specifically hereinafter based on figures.

In FIG. 1 and FIG. 2, at the rear edge part of an upper plate (1a) of a rack plate (1) having a downwardly directed thin box shape, a multiplicity of penetrating engagement holes (2) are provided which have fixed gaps therebetween.

At the lower tip edge of the front plate (1b) of the rack plate (1), a contiguously bent and arranged horizontal member (1c) extends frontward, and at the front edge of the horizontal member (1c), a contiguously bent and arranged vertical member (1d) extends upward, thus forming a U-shaped groove.

In the horizontal member (1c) are provided engagement holes (3) of the same shape and dimension as the above mentioned engagement holes (2) at locations corresponding to each of the engagement holes (2).

The upper tip edge of the vertical member (1d) is positioned somewhat below the upper plate (1a).

An attachment frame (4) having an inverted U-shaped side face shape fits into the U-shaped groove formed by the front plate (1b), the horizontal member (1c), and the vertical member (1d).

In a horizontal member (4a) of the attachment frame (4) having the same height as that of the upper plate (1a) of the rack plate (1), a multiplicity of penetrating engagement holes (5) of the same dimensions as those of the above mentioned engagement holes (3) are provided at positions corresponding to each of the engagement holes (3).

An inwardly stepped part (4c) below the main part of the front part vertically hanging member (4b) of the attachment frame (4) is concavely inserted, and the tilted and downwardly

and frontwardly curved card support frame (6) is fixed to the upper part of the front face of the vertically hanging member (4b).

Into the card support frame (6) is inserted a card (10) for display of product name, price, and the like, and the card (10) is supported.

Between the lower part concavely receiving the vertically hanging member (4b) and the lower part of the card support frame (6), the upper tip edge of the hanging member (1d) is inserted from the upper part of the hanging member (1d), and this upper tip edge contacts the stepped part (4c).

A rear plate (1e) of the rack plate (1) contacts the front face of a front plate (1b)' of a rear rack plate (1)' configured similarly to the rack plate (1), and the lower tip edge of the rack plate (1e) is carried on a horizontal member (1c)' of the rearward rack plate (1)'.

The lower tip of a front leg rod (7a) is inserted into the above mentioned engagement holes (5) and (3), and the lower tip of a rear leg rod (7b) is inserted into the above mentioned engagement hole (2) and into the engagement hole (3) of the horizontal member (1c) of the rear rack plate (1) in such a manner that the front-back extending partitioning frame (7) causes the display rack to stand.

Item (7c) is a lock flange formed in the leg rod (7a) for insertion of the leg rod (7a) into the engagement hole (5) and the engagement hole (3) by a certain length, and item (7d) is a lock flange formed in the leg rod (7b) for insertion of the leg rod (7b) into the engagement hole (2) and the engagement hole (3) by a certain length.

Item (8) is a support column of the display rack for appropriate support of the rack plate (1).

In the above described manner, the card support frame (6), together with the attachment frame (4), is attached to the display rack without use of a screws, and these members support the partitioning frame (7).

The shape of the display rack in the above mentioned configuration can be changed, and the card plate can also be attached to the front edge of the rack plate (1). This configuration will be explained using FIG. 3.

Firstly, the partitioning frame (7) is lifted up, and the rack plate (1) is removed. Thereafter, the attachment frame (4) is lifted up, the attachment frame (4) is separated from the vertical member (1d) of the rack plate (1) and is transferred forward, and the rear part hanging member (4d) of the attachment frame (4) is stacked on the rear face of the vertical member (1d).

Thereafter, the lower tip of the card plate (9) is sandwiched between the front plate (1b) of the rack plate (1) and the vertically hanging member (4d) of the attachment frame (4).

In the above described manner, the display rack of the present invention uses a card support frame (6), and by extremely simply operations, the partitioning frame (7) can be arranged standing on the rack plate (1) without use of any type of tool or other component, operation can be extremely simple, and the card plate (9) can be conveniently attached to the front face of the rack plate (1).

4. Brief Description of the Drawings

FIG. 1 is a top view of the display rack of the present invention after removal of the card plate.

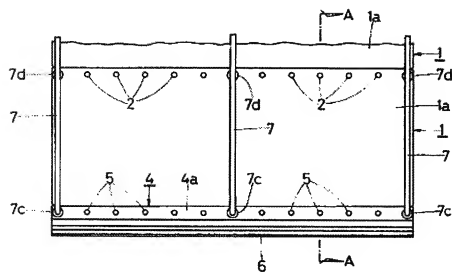
FIG. 2 is a magnified cross-sectional view at the A-A line of FIG. 1.

FIG. 3 is a side view of the major components of the display rack of the present invention after attachment of the card plate.

- (1) ... rack plate
- (1a) ... upper plate
- (1b) ... front plate
- (1c) ... horizontal member
- (1d) ... vertical member
- (1e) ... rear plate
- (2), (3) ... engagement hole
- (4) ... attachment frame
- (4a) ... horizontal member
- (4b) ... vertically hanging member
- (4c) ... stepped part
- (4d) ... vertically hanging member
- (5) ... engagement hole
- (6) ... card support frame
- (7) ... partitioning frame
- (7a), (7b) ... leg rod
- (7c), (7d) ... lock flange
- (8) ... support column
- (9) ... guard plate
- (10) ... card

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[FIG. 1]



[FIG. 2]

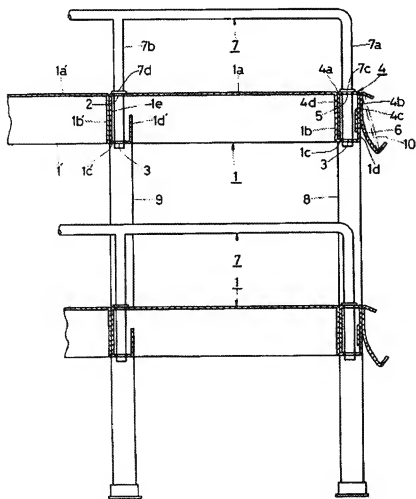
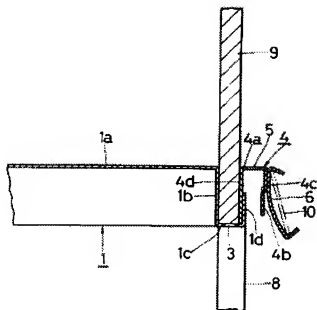


FIG. 3



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